

BOREHOLE LOG

Project Name: VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1								
Project Number: 01K78601			Borehole No.: 20-MW-12			Sheet 1 of 2		
Borehole Location: 2099588.81 N, 5801895.38 E						Elevation and Datum: 454.02 feet MSL		
Drilling Contractor: Tri-County Drilling, Inc.			Date Started: 05/11/98			Date Ended: 05/11/98		
Drilling Equipment: CME-75			Total Depth: 51 feet			Groundwater Depth: 48.5 feet		
Drilling Method: Hollow Stem Auger			Sampling Method: Split Spoon			Borehole Diameter: 11 inches		
Driller: M. Ferguson			Borehole Abandonment: Completed as 4" monitoring well					
Hammer Information: Manuel Hammer: 140-lb and 30-inch drop			Logged By: D. Peeler			Checked By: M. Anderson		

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
5	SILTY SAND, dark gray (2.5Y 4/1), moist, fine to medium grained, loose, with silt (10%) and some Fe staining. Same as above, increasing clay content.		SM				0	Hand augered to 7 feet.
10	SANDY CLAY, dark gray (2.5Y 4/1), moist, soft, medium plasticity, with fine to medium grained sand (40%). Same as above, slightly moist, stiff, firm, high plasticity, with fine grained sand (30%). Same as above, hard, less sand (20%). Same as above, olive brown (2.5Y 4/3).		CL				0	
15	CLAY, olive brown (2.5Y 4/3), slightly moist, stiff, hard, high plasticity, with fine sand (<10%). SANDY CLAY, olive brown (2.5Y 4/3), slightly moist, soft, medium plasticity, with fine to coarse sand (30%).		CL				0	
20	CLAY, olive brown (2.5Y 4/3), slightly moist, stiff, firm, high plasticity, with fine sand (<10%). SANDY CLAY, olive brown (2.5Y 4/3), slightly moist, firm, medium plasticity, with fine to medium sand (20%) and subangular to subrounded gravel (10%).		CL				0	
25	Same as above, subangular shale gravel.		CL				0	
30								




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Sheet 2 of 2

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	Same as above, dark gray (2.5Y 4/1), with sand (25%) and rounded shale gravel less than 1/4" (15%).		CL				0	
35	GRAVELLY CLAY, dark grayish brown (2.5Y 4/2), slightly moist, stiff, firm, medium plasticity, with subangular to rounded gravel up to 1 1/2" (<30%) and sand (20%).		CL				0	
40							0	
	Same as above, moist, soft, high plasticity, decreasing gravel.		CL					
45	Same as above, angular to subangular gravel less than 1/4" (<20%).		CL				0	
50	SANDY CLAY, dark grayish brown (2.5Y 4/2), wet, soft, with fine sand (20%) and trace gravel.		CL				0	
	ROCK, very dark brown (10YR 2/2), laminated, fractured, dry, hard, nonplastic, with fine sand (10%) and trace well rounded shale gravel.		RX					Very hard drilling.
55	End of boring at 51 feet below ground surface. Groundwater encountered at 48.5 feet. Boring completed as 4" monitoring well.							
60								
65								
70								